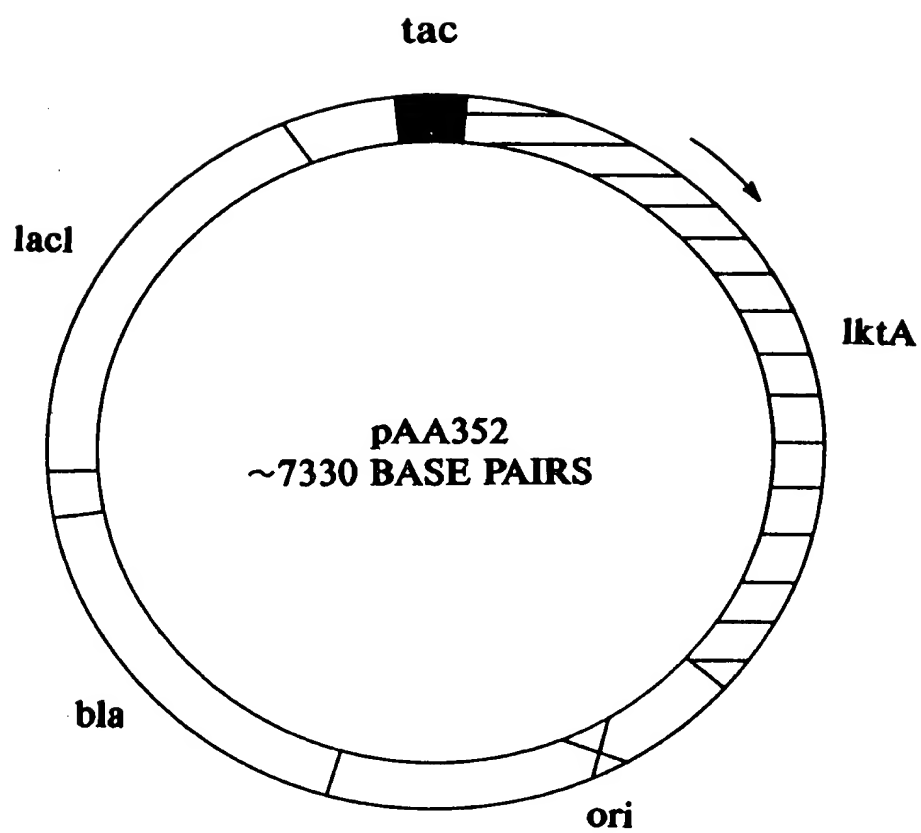


FIG. 1

08976566-11249



**FIG. 2**

08976566-112497





640 \* 650 \* 660 \* 670 \* 680 \* 690 \* 700 \* 710 \* 720 \*  
 CTA TTA TCG GGC GCA ACA GCT GCA CTT GTA CTT GCA GAT AAA AAT GCT TCA ACA GCT AAA AAA GTG GGT GCG GGT TTT GAA TTG GCA  
 GAT AAT AGC CCG CGT TGT CGA CGT GAA CAT GAA CGT CTA TTT TTA GCA AGT TGT CGA TTT TTT CAC CCA CGC CCA AAA CTT AAC CGT  
 Gly Leu Leu Ser Gly Ala Thr Ala Ala Leu Val Leu Ala Asp Lys Asn Ala Ser Thr Ala Lys Lys Val Gly Ala Gly Phe Gly Leu Leu Ala  
 RECOMBINANT LEUKOTOXIN PEPTIDE  
 730 \* 740 \* 750 \* 760 \* 770 \* 780 \* 790 \* 800 \* 810 \*  
 AAC CAA GTT GTT GGT AAT ATT ACC AAA GCC GTT TCT TCT TAC ATT TTA GCC CAA CGT GTT GCA GCA GGT TTA TCT TCA ACT GGG CCT GTG  
 TTG GTT CAA CAA CCA TTA TAA TGG TTT CCG CAA AGA AGA ATG TAA AAT CGG GTT GCA CAA CGT CGT CCA AAT AGA AGT TGA CCC GGA CAC  
 Asn Gln Val Val Gly Asn Ile Thr Lys Ala Val RECOMBINANT LEUKOTOXIN PEPTIDE  
 820 \* 830 \* 840 \* 850 \* 860 \* 870 \* 880 \* 890 \* 900 \*  
 GCT GCT TTA ATT GCT TCT ACT GTT TCT CTT GCG ATT AGC CCA TTA GCA TTT GCC GGT ATT GCC GAT AAA TTT AAT CAT GCA AAA AGT TTA  
 CGA CGA AAT TAA CGA AGA TGA CAA AGA GAA GGC TAA TCG GGT AAT CGT AAA CCG CCA TAA CCG CTA TTT AAA TTA GTA CGT TTT TCA AAT  
 Ala Ala Leu Ile Ala Ser Thr Val Ser Leu Ala Ile Ser Pro Leu Ala Phe Ala Gly Ile Ala Asp Lys Phe Asn His Ala Lys Ser Leu  
 RECOMBINANT LEUKOTOXIN PEPTIDE

FIG. 3C













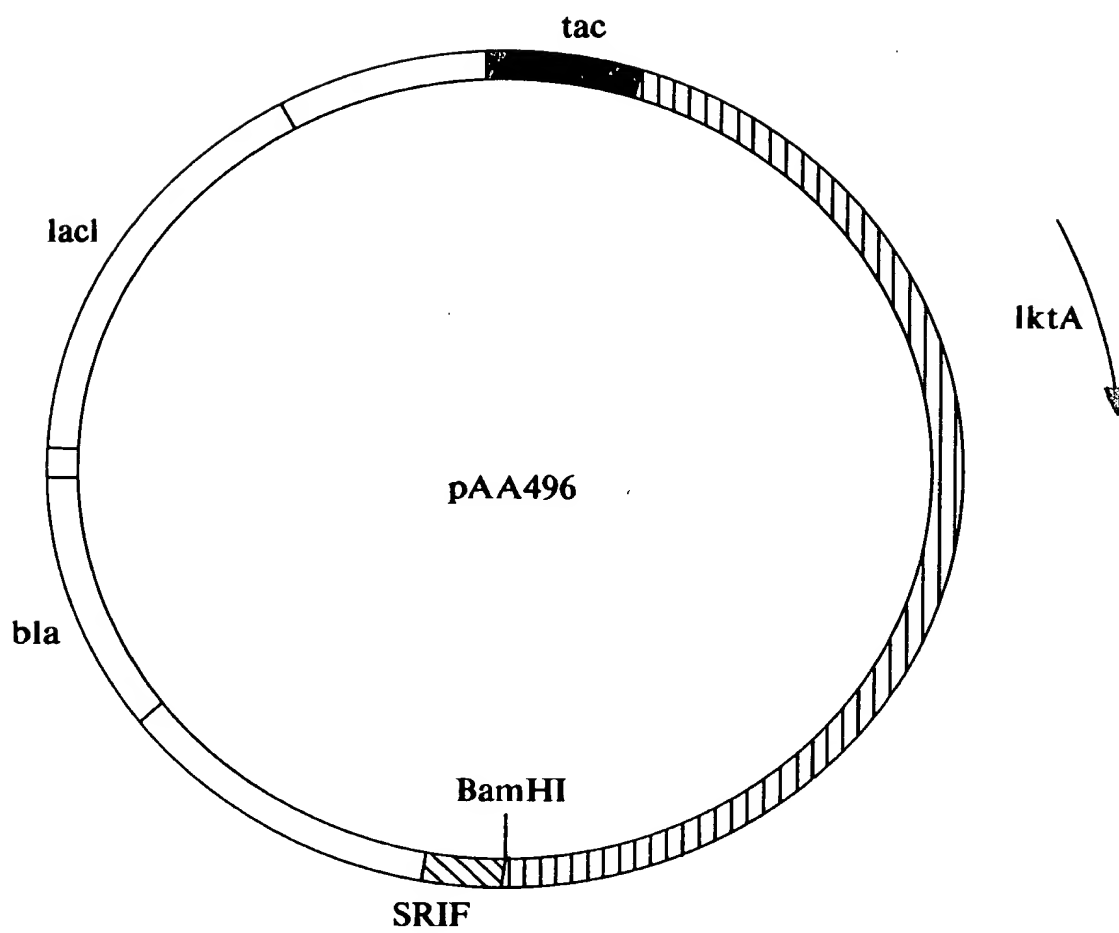


SRIF-1: 5'-GATCCAGCTCTTCTGCCGGCTGC~~AAAA~~ACTTCTTCTGGA~~AA~~ACCTTCACCAGCTGCTAGG-3'  
SRIF-2: 3'-GTCGAGAAGACGGCCGACGTTTTTGAAGAAGACCTTTTGGAGTGGTCGACGATCCCTAG-5'

GNRH-1: 5'-GATCTCAGCATTGGAGCTACGGCCCTGCCCTGGCTAAG-3'  
GNRH-2: 3'-AGTCGTAACTCGATGCCGGACGGGGACCGATTCCTAG-5'

VP4-1: 5'-GATCTTGCAACATTGTGCTGTGAGCATTGTGAGCCGCAACATTGTGTACACCCGCGCGCAACCTAACCAAGACATTGTGTAG-3'  
VP4-2: 3'-AACGTTGTAAACACGGACACTCGTAACACTCGGCCTGTTAACACATGTGGCGCGCGCTTGAATTGTTCTGTAAACACATCCCTAG-5'

## FIG. 4



**FIG. 5**

```

      10      20      30      40
      *      *      *      *      *
ATG GCT ACT GTT ATA GAT CTA AGC TTC CCA AAA ACT GGG GCA AAA AAA
TAC CGA TGA CAA TAT CTA GAT TCG AAG GGT TTT TGA CCC CGT TTT TTT
Met Ala Thr Val Ile Asp Leu Ser Phe Pro Lys Thr Gly Ala Lys Lys>
__a__a__a__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_a__a__a__>

50      60      70      80      90
      *      *      *      *      *
ATT ATC CTC TAT ATT CCC CAA AAT TAC CAA TAT GAT ACT GAA CAA GGT
TAA TAG GAG ATA TAA GGG GTT TTA ATG GTT ATA CTA TGA CTT GTT CCA
Ile Ile Leu Tyr Ile Pro Gln Asn Tyr Gln Tyr Asp Thr Glu Gln Gly>
__a__a__a__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_a__a__a__>

100      110      120      130      140
      *      *      *      *      *
AAT GGT TTA CAG GAT TTA GTC AAA GCG GCC GAA GAG TTG GGG ATT GAG
TTA CCA AAT GTC CTA AAT CAG TTT CGC CGG CTT CTC AAC CCC TAA CTC
Asn Gly Leu Gln Asp Leu Val Lys Ala Ala Glu Glu Leu Gly Ile Glu>
__a__a__a__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_a__a__a__>

150      160      170      180      190
      *      *      *      *      *
GTA CAA AGA GAA GAA CGC AAT AAT ATT GCA ACA GCT CAA ACC AGT TTA
CAT GTT TCT CTT CTT GCG TTA TTA TAA CGT TGT CGA GTT TGG TCA AAT
Val Gln Arg Glu Glu Arg Asn Asn Ile Ala Thr Ala Gln Thr Ser Leu>
__a__a__a__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_a__a__a__>

200      210      220      230      240
      *      *      *      *      *
GGC ACG ATT CAA ACC GCT ATT GGC TTA ACT GAG CGT GGC ATT GTG TTA
CCG TGC TAA GTT TGG CGA TAA CCG AAT TGA CTC GCA CCG TAA CAC AAT
Gly Thr Ile Gln Thr Ala Ile Gly Leu Thr Glu Arg Gly Ile Val Leu>
__a__a__a__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_a__a__a__>

```

FIG. 6A

```

      250      260      270      280
      *      *      *      *      *      *      *      *
TCC GCT CCA CAA ATT GAT AAA TTG CTA CAG AAA ACT AAA GCA GGC CAA
AGG CGA GGT GTT TAA CTA TTT AAC GAT GTC TTT TGA TTT CGT CCG GTT
Ser Ala Pro Gln Ile Asp Lys Leu Leu Gln Lys Thr Lys Ala Gly Gln>
__a__a__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]__a__a__a__>

290      300      310      320      330
      *      *      *      *      *      *      *      *
GCA TTA GGT TCT GCC GAA AGC ATT GTA CAA AAT GCA AAT AAA GCC AAA
CGT AAT CCA AGA CGG CTT TCG TAA CAT GTT TTA CGT TTA TTT CGG TTT
Ala Leu Gly Ser Ala Glu Ser Ile Val Gln Asn Ala Asn Lys Ala Lys>
__a__a__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]__a__a__a__>

      340      350      360      370      380
      *      *      *      *      *      *      *      *
ACT GTA TTA TCT GGC ATT CAA TCT ATT TTA GGC TCA GTA TTG GCT GGA
TGA CAT AAT AGA CCG TAA GTT AGA TAA AAT CCG AGT CAT AAC CGA CCT
Thr Val Leu Ser Gly Ile Gln Ser Ile Leu Gly Ser Val Leu Ala Gly>
__a__a__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]__a__a__a__>

      390      400      410      420      430
      *      *      *      *      *      *      *      *
ATG GAT TTA GAT GAG GCC TTA CAG AAT AAC AGC AAC CAA CAT GCT CTT
TAC CTA AAT CTA CTC CGG AAT GTC TTA TTG TCG TTG GTT GTA CGA GAA
Met Asp Leu Asp Glu Ala Leu Gln Asn Asn Ser Asn Gln His Ala Leu>
__a__a__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]__a__a__a__>

      440      450      460      470      480
      *      *      *      *      *      *      *      *
GCT AAA GCT GGC TTG GAG CTA ACA AAT TCA TTA ATT GAA AAT ATT GCT
CGA TTT CGA CCG AAC CTC GAT TGT TTA AGT AAT TAA CTT TTA TAA CGA
Ala Lys Ala Gly Leu Glu Leu Thr Asn Ser Leu Ile Glu Asn Ile Ala>
__a__a__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]__a__a__a__>

      490      500      510      520
      *      *      *      *      *      *      *      *
AAT TCA GTA AAA ACA CTT GAC GAA TTT GGT GAG CAA ATT AGT CAA TTT
TTA AGT CAT TTT TGT GAA CTG CTT AAA CCA CTC GTT TAA TCA GTT AAA
Asn Ser Val Lys Thr Leu Asp Glu Phe Gly Glu Gln Ile Ser Gln Phe>
__a__a__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]__a__a__a__>

```

FIG. 6B

530                    540                    550                    560                    570  
 \*                    \*                    \*                    \*                    \*  
 GGT TCA AAA CTA CAA AAT ATC AAA GGC TTA GGG ACT TTA GGA GAC AAA  
 CCA AGT TTT GAT GTT TTA TAG TTT CCG AAT CCC TGA AAT CCT CTG TTT  
 Gly Ser Lys Leu Gln Asn Ile Lys Gly Leu Gly Thr Leu Gly Asp Lys>  
 \_\_\_\_a\_\_\_\_a\_\_\_\_RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_a\_\_\_\_a\_\_\_\_a\_\_\_\_>

580                    590                    600                    610                    620  
 \*                    \*                    \*                    \*                    \*  
 CTC AAA AAT ATC GGT GGA CTT GAT AAA GCT GGC CTT GGT TTA GAT GTT  
 GAG TTT TTA TAG CCA CCT GAA CTA TTT CGA CCG GAA CCA AAT CTA CAA  
 Leu Lys Asn Ile Gly Gly Leu Asp Lys Ala Gly Leu Gly Leu Asp Val>  
 \_\_\_\_a\_\_\_\_a\_\_\_\_RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_a\_\_\_\_a\_\_\_\_a\_\_\_\_>

630                    640                    650                    660                    670  
 \*                    \*                    \*                    \*                    \*  
 ATC TCA GGG CTA TTA TCG GGC GCA ACA GCT GCA CTT GTA CTT GCA GAT  
 TAG AGT CCC GAT AAT AGC CCG CGT TGT CGA CGT GAA CAT GAA CGT CTA  
 Ile Ser Gly Leu Leu Ser Gly Ala Thr Ala Ala Leu Val Leu Ala Asp>  
 \_\_\_\_a\_\_\_\_a\_\_\_\_RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_a\_\_\_\_a\_\_\_\_a\_\_\_\_>

680                    690                    700                    710                    720  
 \*                    \*                    \*                    \*                    \*  
 AAA AAT GCT TCA ACA GCT AAA AAA GTG GGT GCG GGT TTT GAA TTG GCA  
 TTT TTA CGA AGT TGT CGA TTT TTT CAC CCA CGC CCA AAA CTT AAC CGT  
 Lys Asn Ala Ser Thr Ala Lys Lys Val Gly Ala Gly Phe Glu Leu Ala>  
 \_\_\_\_a\_\_\_\_a\_\_\_\_RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_a\_\_\_\_a\_\_\_\_a\_\_\_\_>

730                    740                    750                    760  
 \*                    \*                    \*                    \*  
 AAC CAA GTT GTT GGT AAT ATT ACC AAA GCC GTT TCT TCT TAC ATT TTA  
 TTG GTT CAA CAA CCA TTA TAA TGG TTT CGG CAA AGA AGA ATG TAA AAT  
 Asn Gln Val Val Gly Asn Ile Thr Lys Ala Val Ser Ser Tyr Ile Leu>  
 \_\_\_\_a\_\_\_\_a\_\_\_\_RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_a\_\_\_\_a\_\_\_\_a\_\_\_\_>

770                    780                    790                    800                    810  
 \*                    \*                    \*                    \*                    \*  
 GCC CAA CGT GTT GCA GCA GGT TTA TCT TCA ACT GGG CCT GTG GCT GCT  
 CGG GTT GCA CAA CGT CGT CCA AAT AGA AGT TGA CCC GGA CAC CGA CGA  
 Ala Gln Arg Val Ala Ala Gly Leu Ser Ser Thr Gly Pro Val Ala Ala>  
 \_\_\_\_a\_\_\_\_a\_\_\_\_RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_a\_\_\_\_a\_\_\_\_a\_\_\_\_>

820                    830                    840                    850                    860  
 \*                    \*                    \*                    \*                    \*  
 TTA ATT GCT TCT ACT GTT TCT CTT GCG ATT AGC CCA TTA GCA TTT GCC  
 AAT TAA CGA AGA TGA CAA AGA GAA CGC TAA TCG GGT AAT CGT AAA CGG  
 Leu Ile Ala Ser Thr Val Ser Leu Ala Ile Ser Pro Leu Ala Phe Ala>  
 \_\_\_\_a\_\_\_\_a\_\_\_\_RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_a\_\_\_\_a\_\_\_\_a\_\_\_\_>

FIG. 6C



870                      880                      890                      900                      910  
 \*           \*           \*           \*           \*           \*           \*           \*           \*  
 GGT ATT GCC GAT AAA TTT AAT CAT GCA AAA AGT TTA GAG AGT TAT GCC  
 CCA TAA CGG CTA TTT AAA TTA GTA CGT TTT TCA AAT CTC TCA ATA CGG  
 Gly Ile Ala Asp Lys Phe Asn His Ala Lys Ser Leu Glu Ser Tyr Ala>  
 \_\_\_a\_\_\_a\_\_\_RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_a\_\_\_a\_\_\_a\_\_\_>

920                      930                      940                      950                      960  
 \*           \*           \*           \*           \*           \*           \*           \*           \*  
 GAA CGC TTT AAA AAA TTA GGC TAT GAC GGA GAT AAT TTA TTA GCA GAA  
 CTT GCG AAA TTT TTT AAT CCG ATA CTG CCT CTA TTA AAT AAT CGT CTT  
 Glu Arg Phe Lys Lys Leu Gly Tyr Asp Gly Asp Asn Leu Leu Ala Glu>  
 \_\_\_a\_\_\_a\_\_\_RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_a\_\_\_a\_\_\_a\_\_\_>

970                      980                      990                      1000  
 \*           \*           \*           \*           \*           \*           \*           \*  
 TAT CAG CGG GGA ACA GGG ACT ATT GAT GCA TCG GTT ACT GCA ATT AAT  
 ATA GTC GCC CCT TGT CCC TGA TAA CTA CGT AGC CAA TGA CGT TAA TTA  
 Tyr Gln Arg Gly Thr Gly Thr Ile Asp Ala Ser Val Thr Ala Ile Asn>  
 \_\_\_a\_\_\_a\_\_\_RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_a\_\_\_a\_\_\_a\_\_\_>

1010                      1020                      1030                      1040                      1050  
 \*           \*           \*           \*           \*           \*           \*           \*           \*  
 ACC GCA TTG GCC GCT ATT GCT GGT GGT GTG TCT GCT GCT GCA GCC GGC  
 TGG CGT AAC CGG CGA TAA CGA CCA CCA CAC AGA CGA CGA CGT CGG CCG  
 Thr Ala Leu Ala Ala Ile Ala Gly Gly Val Ser Ala Ala Ala Ala Gly>  
 \_\_\_a\_\_\_a\_\_\_RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_a\_\_\_a\_\_\_a\_\_\_>

1060                      1070                      1080                      1090                      1100  
 \*           \*           \*           \*           \*           \*           \*           \*           \*  
 TCG GTT ATT GCT TCA CCG ATT GCC TTA TTA GTA TCT GGG ATT ACC GGT  
 AGC CAA TAA CGA AGT GGC TAA CGG AAT AAT CAT AGA CCC TAA TGG CCA  
 Ser Val Ile Ala Ser Pro Ile Ala Leu Leu Val Ser Gly Ile Thr Gly>  
 \_\_\_a\_\_\_a\_\_\_RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_a\_\_\_a\_\_\_a\_\_\_>

1110                      1120                      1130                      1140                      1150  
 \*           \*           \*           \*           \*           \*           \*           \*           \*  
 GTA ATT TCT ACG ATT CTG CAA TAT TCT AAA CAA GCA ATG TTT GAG CAC  
 CAT TAA AGA TGC TAA GAC GTT ATA AGA TTT GTT CGT TAC AAA CTC GTG  
 Val Ile Ser Thr Ile Leu Gln Tyr Ser Lys Gln Ala Met Phe Glu His>  
 \_\_\_a\_\_\_a\_\_\_RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_a\_\_\_a\_\_\_a\_\_\_>

FIG. 6D

1160                      1170                      1180                      1190                      1200  
 \*                      \*                      \*                      \*                      \*  
 GTT GCA AAT AAA ATT CAT AAC AAA ATT GTA GAA TGG GAA AAA AAT AAT  
 CAA CGT TTA TTT TAA GTA TTG TTT TAA CAT CTT ACC CTT TTT TTA TTA  
 Val Ala Asn Lys Ile His Asn Lys Ile Val Glu Trp Glu Lys Asn Asn>  
 \_\_\_a\_\_\_a\_\_\_ RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_a\_\_\_a\_\_\_a\_\_\_>

1210                      1220                      1230                      1240  
 \*                      \*                      \*                      \*                      \*  
 CAC GGT AAG AAC TAC TTT GAA AAT GGT TAC GAT GCC CGT TAT CTT GCG  
 GTG CCA TTC TTG ATG AAA CTT TTA CCA ATG CTA CGG GCA ATA GAA CGC  
 His Gly Lys Asn Tyr Phe Glu Asn Gly Tyr Asp Ala Arg Tyr Leu Ala>  
 \_\_\_a\_\_\_a\_\_\_ RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_a\_\_\_a\_\_\_a\_\_\_>

1250                      1260                      1270                      1280                      1290  
 \*                      \*                      \*                      \*                      \*  
 AAT TTA CAA GAT AAT ATG AAA TTC TTA CTG AAC TTA AAC AAA GAG TTA  
 TTA AAT GTT CTA TTA TAC TTT AAG AAT GAC TTG AAT TTG TTT CTC AAT  
 Asn Leu Gln Asp Asn Met Lys Phe Leu Leu Asn Leu Asn Lys Glu Leu>  
 \_\_\_a\_\_\_a\_\_\_ RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_a\_\_\_a\_\_\_a\_\_\_>

1300                      1310                      1320                      1330                      1340  
 \*                      \*                      \*                      \*                      \*  
 CAG GCA GAA CGT GTC ATC GCT ATT ACT CAG CAG CAA TGG GAT AAC AAC  
 GTC CGT CTT GCA CAG TAG CGA TAA TGA GTC GTC GTT ACC CTA TTG TTG  
 Gln Ala Glu Arg Val Ile Ala Ile Thr Gln Gln Gln Trp Asp Asn Asn>  
 \_\_\_a\_\_\_a\_\_\_ RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_a\_\_\_a\_\_\_a\_\_\_>

1350                      1360                      1370                      1380                      1390  
 \*                      \*                      \*                      \*                      \*  
 ATT GGT GAT TTA GCT GGT ATT AGC CGT TTA GGT GAA AAA GTC CTT AGT  
 TAA CCA CTA AAT CGA CCA TAA TCG GCA AAT CCA CTT TTT CAG GAA TCA  
 Ile Gly Asp Leu Ala Gly Ile Ser Arg Leu Gly Glu Lys Val Leu Ser>  
 \_\_\_a\_\_\_a\_\_\_ RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_a\_\_\_a\_\_\_a\_\_\_>

1400                      1410                      1420                      1430                      1440  
 \*                      \*                      \*                      \*                      \*  
 GGT AAA GCC TAT GTG GAT GCG TTT GAA GAA GGC AAA CAC ATT AAA GCC  
 CCA TTT CGG ATA CAC CTA CGC AAA CTT CTT CCG TTT GTG TAA TTT CGG  
 Gly Lys Ala Tyr Val Asp Ala Phe Glu Glu Gly Lys His Ile Lys Ala>  
 \_\_\_a\_\_\_a\_\_\_ RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_a\_\_\_a\_\_\_a\_\_\_>

1450                      1460                      1470                      1480  
 \*                      \*                      \*                      \*  
 GAT AAA TTA GTA CAG TTG GAT TCG GCA AAC GGT ATT ATT GAT GTG AGT  
 CTA TTT AAT CAT GTC AAC CTA AGC CGT TTG CCA TAA TAA CTA CAC TCA  
 Asp Lys Leu Val Gln Leu Asp Ser Ala Asn Gly Ile Ile Asp Val Ser>  
 \_\_\_a\_\_\_a\_\_\_ RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_a\_\_\_a\_\_\_a\_\_\_>

FIG. 6E

1490                    1500                    1510                    1520                    1530  
 \*                    \*                    \*                    \*                    \*  
 AAT TCG GGT AAA GCG AAA ACT CAG CAT ATC TTA TTC AGA ACG CCA TTA  
 TTA AGC CCA TTT CGC TTT TGA GTC GTA TAG AAT AAG TCT TGC GGT AAT  
 Asn Ser Gly Lys Ala Lys Thr Gln His Ile Leu Phe Arg Thr Pro Leu>  
 \_\_\_a\_\_\_a\_\_\_ RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_a\_\_\_a\_\_\_a\_\_\_>

1540                    1550                    1560                    1570                    1580  
 \*                    \*                    \*                    \*                    \*  
 TTG ACG CCG GGA ACA GAG CAT CGT GAA CGC GTA CAA ACA GGT AAA TAT  
 AAC TGC GGC CCT TGT CTC GTA GCA CTT GCG CAT GTT TGT CCA TTT ATA  
 Leu Thr Pro Gly Thr Glu His Arg Glu Arg Val Gln Thr Gly Lys Tyr>  
 \_\_\_a\_\_\_a\_\_\_ RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_a\_\_\_a\_\_\_a\_\_\_>

1590                    1600                    1610                    1620                    1630  
 \*                    \*                    \*                    \*                    \*  
 GAA TAT ATT ACC AAG CTC AAT ATT AAC CGT GTA GAT AGC TGG AAA ATT  
 CTT ATA TAA TGG TTC GAG TTA TAA TTG GCA CAT CTA TCG ACC TTT TAA  
 Glu Tyr Ile Thr Lys Leu Asn Ile Asn Arg Val Asp Ser Trp Lys Ile>  
 \_\_\_a\_\_\_a\_\_\_ RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_a\_\_\_a\_\_\_a\_\_\_>

1640                    1650                    1660                    1670                    1680  
 \*                    \*                    \*                    \*                    \*  
 ACA GAT GGT GCA GCA AGT TCT ACC TTT GAT TTA ACT AAC GTT GTT CAG  
 TGT CTA CCA CGT CGT TCA AGA TGG AAA CTA AAT TGA TTG CAA CAA GTC  
 Thr Asp Gly Ala Ala Ser Ser Thr Phe Asp Leu Thr Asn Val Val Gln>  
 \_\_\_a\_\_\_a\_\_\_ RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_a\_\_\_a\_\_\_a\_\_\_>

1690                    1700                    1710                    1720  
 \*                    \*                    \*                    \*  
 CGT ATT GGT ATT GAA TTA GAC AAT GCT GGA AAT GTA ACT AAA ACC AAA  
 GCA TAA CCA TAA CTT AAT CTG TTA CGA CCT TTA CAT TGA TTT TGG TTT  
 Arg Ile Gly Ile Glu Leu Asp Asn Ala Gly Asn Val Thr Lys Thr Lys>  
 \_\_\_a\_\_\_a\_\_\_ RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_a\_\_\_a\_\_\_a\_\_\_>

1730                    1740                    1750                    1760                    1770  
 \*                    \*                    \*                    \*                    \*  
 GAA ACA AAA ATT ATT GCC AAA CTT GGT GAA GGT GAT GAC AAC GTA TTT  
 CTT TGT TTT TAA TAA CGG TTT GAA CCA CTT CCA CTA CTG TTG CAT AAA  
 Glu Thr Lys Ile Ile Ala Lys Leu Gly Glu Gly Asp Asp Asn Val Phe>  
 \_\_\_a\_\_\_a\_\_\_ RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_a\_\_\_a\_\_\_a\_\_\_>

FIG. 6F

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1780      1790      1800      1810      1820
*      *      *      *      *
GTT GGT TCT GGT ACG ACG GAA ATT GAT GGC GGT GAA GGT TAC GAC CGA
CAA CCA AGA CCA TGC TGC CTT TAA CTA CCG CCA CTT CCA ATG CTG GCT
Val Gly Ser Gly Thr Thr Glu Ile Asp Gly Gly Glu Gly Tyr Asp Arg>
__a__a__a__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_a__a__a__>

1830      1840      1850      1860      1870
*      *      *      *      *
GTT CAC TAT AGC CGT GGA AAC TAT GGT GCT TTA ACT ATT GAT GCA ACC
CAA GTG ATA TCG GCA CCT TTG ATA CCA CGA AAT TGA TAA CTA CGT TGG
Val His Tyr Ser Arg Gly Asn Tyr Gly Ala Leu Thr Ile Asp Ala Thr>
__a__a__a__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_a__a__a__>

1880      1890      1900      1910      1920
*      *      *      *      *
AAA GAG ACC GAG CAA GGT AGT TAT ACC GTA AAT CGT TTC GTA GAA ACC
TTT CTC TGG CTC GTT CCA TCA ATA TGG CAT TTA GCA AAG CAT CTT TGG
Lys Glu Thr Glu Gln Gly Ser Tyr Thr Val Asn Arg Phe Val Glu Thr>
__a__a__a__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_a__a__a__>

1930      1940      1950      1960
*      *      *      *      *
GGT AAA GCA CTA CAC GAA GTG ACT TCA ACC CAT ACC GCA TTA GTG GGC
CCA TTT CGT GAT GTG CTT CAC TGA AGT TGG GTA TGG CGT AAT CAC CCG
Gly Lys Ala Leu His Glu Val Thr Ser Thr His Thr Ala Leu Val Gly>
__a__a__a__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_a__a__a__>

1970      1980      1990      2000      2010
*      *      *      *      *
AAC CGT GAA GAA AAA ATA GAA TAT CGT CAT AGC AAT AAC CAG CAC CAT
TTG GCA CTT CTT TTT TAT CTT ATA GCA GTA TCG TTA TTG GTC GTG GTA
Asn Arg Glu Glu Lys Ile Glu Tyr Arg His Ser Asn Asn Gln His His>
__a__a__a__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_a__a__a__>

2020      2030      2040      2050      2060
*      *      *      *      *
GCC GGT TAT TAC ACC AAA GAT ACC TTG AAA GCT GTT GAA GAA ATT ATC
CGG CCA ATA ATG TGG TTT CTA TGG AAC TTT CGA CAA CTT CTT TAA TAG
Ala Gly Tyr Tyr Thr Lys Asp Thr Leu Lys Ala Val Glu Glu Ile Ile>
__a__a__a__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_a__a__a__>

2070      2080      2090      2100      2110
*      *      *      *      *
GGT ACA TCA CAT AAC GAT ATC TTT AAA GGT AGT AAG TTC AAT GAT GCC
CCA TGT AGT GTA TTG CTA TAG AAA TTT CCA TCA TTC AAG TTA CTA CGG
Gly Thr Ser His Asn Asp Ile Phe Lys Gly Ser Lys Phe Asn Asp Ala>
__a__a__a__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_a__a__a__>

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FIG. 6G

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      2120      2130      2140      2150      2160
      *      *      *      *      *
TTT AAC GGT GGT GAT GGT GTC GAT ACT ATT GAC GGT AAC GAC GGC AAT
AAA TTG CCA CCA CTA CCA CAG CTA TGA TAA CTG CCA TTG CTG CCG TTA
Phe Asn Gly Gly Asp Gly Val Asp Thr Ile Asp Gly Asn Asp Gly Asn>
__a__a__a__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]__a__a__a__>

      2170      2180      2190      2200
      *      *      *      *
GAC CGC TTA TTT GGT GGT AAA GGC GAT GAT ATT CTC GAT GGT GGA AAT
CTG GCG AAT AAA CCA CCA TTT CCG CTA CTA TAA GAG CTA CCA CCT TTA
Asp Arg Leu Phe Gly Gly Lys Gly Asp Asp Ile Leu Asp Gly Gly Asn>
__a__a__a__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]__a__a__a__>

2210      2220      2230      2240      2250
      *      *      *      *      *
GGT GAT GAT TTT ATC GAT GGC GGT AAA GGC AAC GAC CTA TTA CAC GGT
CCA CTA CTA AAA TAG CTA CCG CCA TTT CCG TTG CTG GAT AAT GTG CCA
Gly Asp Asp Phe Ile Asp Gly Gly Lys Gly Asn Asp Leu Leu His Gly>
__a__a__a__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]__a__a__a__>

      2260      2270      2280      2290      2300
      *      *      *      *      *
GGC AAG GGC GAT GAT ATT TTC GTT CAC CGT AAA GGC GAT GGT AAT GAT
CCG TTC CCG CTA CTA TAA AAG CAA GTG GCA TTT CCG CTA CCA TTA CTA
Gly Lys Gly Asp Asp Ile Phe Val His Arg Lys Gly Asp Gly Asn Asp>
__a__a__a__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]__a__a__a__>

      2310      2320      2330      2340      2350
      *      *      *      *      *
ATT ATT ACC GAT TCT GAC GGC AAT GAT AAA TTA TCA TTC TCT GAT TCG
TAA TAA TGG CTA AGA CTG CCG TTA CTA TTT AAT AGT AAG AGA CTA AGC
Ile Ile Thr Asp Ser Asp Gly Asn Asp Lys Leu Ser Phe Ser Asp Ser>
__a__a__a__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]__a__a__a__>

      2360      2370      2380      2390      2400
      *      *      *      *      *
AAC TTA AAA GAT TTA ACA TTT GAA AAA GTT AAA CAT AAT CTT GTC ATC
TTG AAT TTT CTA AAT TGT AAA CTT TTT CAA TTT GTA TTA GAA CAG TAG
Asn Leu Lys Asp Leu Thr Phe Glu Lys Val Lys His Asn Leu Val Ile>
__a__a__a__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]__a__a__a__>

```

FIG. 6H

2410										2420										2430										2440									
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
ACG	AAT	AGC	AAA	AAA	GAG	AAA	GTG	ACC	ATT	CAA	AAC	TGG	TTC	CGA	GAG					Thr	Asn	Ser	Lys	Lys	Glu	Lys	Val	Thr	Ile	Gln	Asn	Trp	Phe	Arg	Glu	>			
___a___a___										RECOMBINANT										LEUKOTOXIN PEPTIDE [SPLIT]_a___a___a___>																			

2450										2460										2470										2480										2490									
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*										
GCT	GAT	TTT	GCT	AAA	GAA	GTG	CCT	AAT	TAT	AAA	GCA	ACT	AAA	GAT	GAG					Ala	Asp	Phe	Ala	Lys	Glu	Val	Pro	Asn	Tyr	Lys	Ala	Thr	Lys	Asp	Glu	>													
___a___a___										RECOMBINANT										LEUKOTOXIN PEPTIDE [SPLIT]_a___a___a___>																													

2500										2510										2520										2530										2540									
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*										
AAA	ATC	GAA	GAA	ATC	ATC	GGT	CAA	AAT	GGC	GAG	CGG	ATC	ACC	TCA	AAG					Lys	Ile	Glu	Glu	Ile	Ile	Gly	Gln	Asn	Gly	Glu	Arg	Ile	Thr	Ser	Lys	>													
___a___a___										RECOMBINANT										LEUKOTOXIN PEPTIDE [SPLIT]_a___a___a___>																													

2550										2560										2570										2580										2590									
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*										
CAA	GTT	GAT	GAT	CTT	ATC	GCA	AAA	GGT	AAC	GGC	AAA	ATT	ACC	CAA	GAT					Gln	Val	Asp	Asp	Leu	Ile	Ala	Lys	Gly	Asn	Gly	Lys	Ile	Thr	Gln	Asp	>													
___a___a___										RECOMBINANT										LEUKOTOXIN PEPTIDE [SPLIT]_a___a___a___>																													

2600										2610										2620										2630										2640									
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*										
GAG	CTA	TCA	AAA	GTT	GTT	GAT	AAC	TAT	GAA	TTG	CTC	AAA	CAT	AGC	AAA					Glu	Leu	Ser	Lys	Val	Val	Asp	Asn	Tyr	Glu	Leu	Leu	Lys	His	Ser	Lys	>													
___a___a___										RECOMBINANT										LEUKOTOXIN PEPTIDE [SPLIT]_a___a___a___>																													

2650										2660										2670										2680									
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
AAT	GTG	ACA	AAC	AGC	TTA	GAT	AAG	TTA	ATC	TCA	TCT	GTA	AGT	GCA	TTT					Asn	Val	Thr	Asn	Ser	Leu	Asp	Lys	Leu	Ile	Ser	Ser	Val	Ser	Ala	Phe	>			
___a___a___										RECOMBINANT										LEUKOTOXIN PEPTIDE [SPLIT]_a___a___a___>																			

2690										2700										2710										2720										2730									
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*										
ACC	TCG	TCT	AAT	GAT	TCG	AGA	AAT	GTA	TTA	GTG	GCT	CCA	ACT	TCA	ATG					Thr	Ser	Ser	Asn	Asp	Ser	Arg	Asn	Val	Leu	Val	Ala	Pro	Thr	Ser	M	t>													
___a___a___										RECOMBINANT										LEUKOTOXIN PEPTIDE [SPLIT]_a___a___a___>																													

FIG. 6I

2740                      2750                      2760                      2770                      2780  
 \*                      \*                      \*                      \*                      \*  
 TTG GAT CAA AGT TTA TCT TCT CTT CAA TTT GCT AGG GGA TCC AGC TCT  
 AAC CTA GTT TCA AAT AGA AGA GAA GTT AAA CGA TCC CCT AGG TCG AGA  
 Leu Asp Gln Ser Leu Ser Ser Leu Gln Phe Ala Arg Gly Ser>  
 \_\_\_\_a\_\_\_\_RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_a\_\_\_\_a\_\_\_\_>  
 Ser Ser>  
 \_\_\_\_b\_\_\_\_>

2790                      2800                      2810                      2820                      2830  
 \*                      \*                      \*                      \*                      \*  
 TCT GCC GGC TGC AAA AAC TTC TTC TGG AAA ACC TTC ACC AGC TGC TAG  
 AGA CGG CCG ACG TTT TTG AAG AAG ACC TTT TGG AAG TGG TCG ACG ATC  
 Ser>  
 \_\_\_\_>  
 Ala Gly Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys End>  
 \_\_\_\_c\_\_\_\_c\_\_\_\_c\_\_\_\_c\_\_\_\_c\_\_\_\_SRIF PEPTIDE\_\_\_\_c\_\_\_\_c\_\_\_\_c\_\_\_\_c\_\_\_\_>

\*  
 GGATCC  
 CCTAGG

FIG. 6J

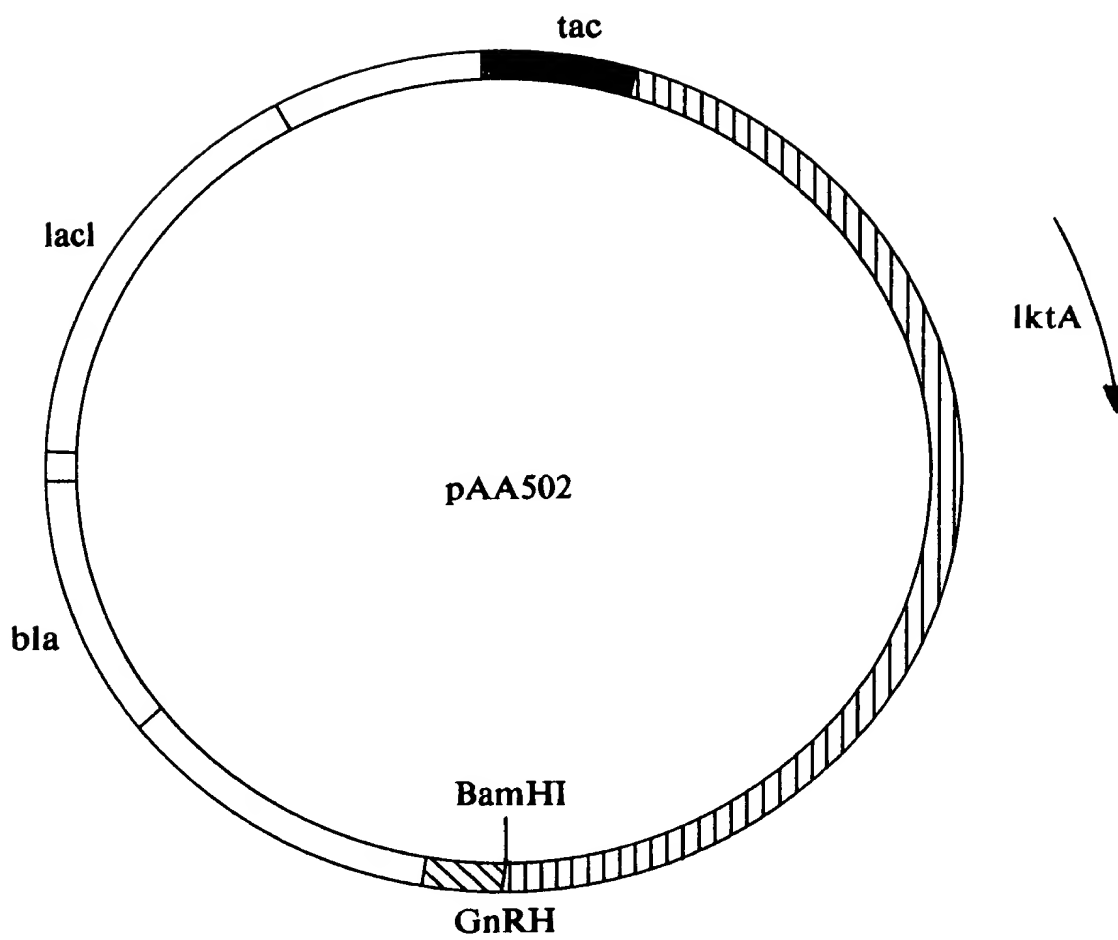


FIG. 7



```

      10      20      30      40
      *      *      *      *      *
ATG GCT ACT GTT ATA GAT CTA AGC TTC CCA AAA ACT GGG GCA AAA AAA
TAC CGA TGA CAA TAT CTA GAT TCG AAG GGT TTT TGA CCC CGT TTT TTT
Met Ala Thr Val Ile Asp Leu Ser Phe Pro Lys Thr Gly Ala Lys Lys>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

50      60      70      80      90
      *      *      *      *      *
ATT ATC CTC TAT ATT CCC CAA AAT TAC CAA TAT GAT ACT GAA CAA GGT
TAA TAG GAG ATA TAA GGG GTT TTA ATG GTT ATA CTA TGA CTT GTT CCA
Ile Ile Leu Tyr Ile Pro Gln Asn Tyr Gln Tyr Asp Thr Glu Gln Gly>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

100      110      120      130      140
      *      *      *      *      *
AAT GGT TTA CAG GAT TTA GTC AAA GCG GCC GAA GAG TTG GGG ATT GAG
TTA CCA AAT GTC CTA AAT CAG TTT CGC CGG CTT CTC AAC CCC TAA CTC
Asn Gly Leu Gln Asp Leu Val Lys Ala Ala Glu Glu Leu Gly Ile Glu>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

150      160      170      180      190
      *      *      *      *      *
GTA CAA AGA GAA GAA CGC AAT AAT ATT GCA ACA GCT CAA ACC AGT TTA
CAT GTT TCT CTT CTT GCG TTA TTA TAA CGT TGT CGA GTT TGG TCA AAT
Val Gln Arg Glu Glu Arg Asn Asn Ile Ala Thr Ala Gln Thr Ser Leu>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

200      210      220      230      240
      *      *      *      *      *
GGC ACG ATT CAA ACC GCT ATT GGC TTA ACT GAG CGT GGC ATT GTG TTA
CCG TGC TAA GTT TGG CGA TAA CCG AAT TGA CTC GCA CCG TAA CAC AAT
Gly Thr Ile Gln Thr Ala Ile Gly Leu Thr Glu Arg Gly Ile Val Leu>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

```

FIG. 8A

```

      250      260      270      280
      *      *      *      *      *      *      *      *
TCC GCT CCA CAA ATT GAT AAA TTG CTA CAG AAA ACT AAA GCA GGC CAA
AGG CGA GGT GTT TAA CTA TTT AAC GAT GTC TTT TGA TTT CGT CCG GTT
Ser Ala Pro Gln Ile Asp Lys Leu Leu Gln Lys Thr Lys Ala Gly Gln>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

290      300      310      320      330
      *      *      *      *      *      *      *      *
GCA TTA GGT TCT GCC GAA AGC ATT GTA CAA AAT GCA AAT AAA GCC AAA
CGT AAT CCA AGA CGG CTT TCG TAA CAT GTT TTA CGT TTA TTT CGG TTT
Ala Leu Gly Ser Ala Glu Ser Ile Val Gln Asn Ala Asn Lys Ala Lys>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

340      350      360      370      380
      *      *      *      *      *      *      *      *
ACT GTA TTA TCT GGC ATT CAA TCT ATT TTA GGC TCA GTA TTG GCT GGA
TGA CAT AAT AGA CCG TAA GTT AGA TAA AAT CCG AGT CAT AAC CGA CCT
Thr Val Leu Ser Gly Ile Gln Ser Ile Leu Gly Ser Val Leu Ala Gly>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

390      400      410      420      430
      *      *      *      *      *      *      *      *
ATG GAT TTA GAT GAG GCC TTA CAG AAT AAC AGC AAC CAA CAT GCT CTT
TAC CTA AAT CTA CTC CGG AAT GTC TTA TTG TCG TTG GTT GTA CGA GAA
Met Asp Leu Asp Glu Ala Leu Gln Asn Asn Ser Asn Gln His Ala Leu>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

440      450      460      470      480
      *      *      *      *      *      *      *      *
GCT AAA GCT GGC TTG GAG CTA ACA AAT TCA TTA ATT GAA AAT ATT GCT
CGA TTT CGA CCG AAC CTC GAT TGT TTA AGT AAT TAA CTT TTA TAA CGA
Ala Lys Ala Gly Leu Glu Leu Thr Asn Ser Leu Ile Glu Asn Ile Ala>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

490      500      510      520
      *      *      *      *      *      *      *      *
AAT TCA GTA AAA ACA CTT GAC GAA TTN -GT GAG CAA ATT AGT CAA TTT
TTA AGT CAT TTT TGT GAA CTG CTT AAN -CA CTC GTT TAA TCA GTT AAA
Asn Ser Val Lys Thr Leu Asp Glu Xxx Cys Glu Gln Ile Ser Gln Phe>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

530      540      550      560      570
      *      *      *      *      *      *      *      *
GGT TCA AAA CTA CAA AAT ATC AAA GGC TTA GGG ACT TTA GGA GAC AAA
CCA AGT TTT GAT GTT TTA TAG TTT CCG AAT CCC TGA AAT CCT CTG TTT
Gly Ser Lys Leu Gln Asn Ile Lys Gly Leu Gly Thr Leu Gly Asp Lys>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

```

FIG. 8B

```

      580          590          600          610          620
      *          *          *          *          *
CTC AAA AAT ATC GGT GGA CTT GAT AAA GCT GGC CTT GGT TTA GAT GTT
GAG TTT TTA TAG CCA CCT GAA CTA TTT CGA CCG GAA CCA AAT CTA CAA
Leu Lys Asn Ile Gly Gly Leu Asp Lys Ala Gly Leu Gly Leu Asp Val>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

      630          640          650          660          670
      *          *          *          *          *
ATC TCA GGG CTA TTA TCG GGC GCA ACA GCT GCA CTT GTA CTT GCA GAT
TAG AGT CCC GAT AAT AGC CCG CGT TGT CGA CGT GAA CAT GAA CGT CTA
Ile Ser Gly Leu Leu Ser Gly Ala Thr Ala Ala Leu Val Leu Ala Asp>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

      680          690          700          710          720
      *          *          *          *          *
AAA AAT GCT TCA ACA GCT AAA AAA GTG GGT GCG GGT TTT GAA TTG GCA
TTT TTA CGA AGT TGT CGA TTT TTT CAC CCA CGC CCA AAA CTT AAC CGT
Lys Asn Ala Ser Thr Ala Lys Lys Val Gly Ala Gly Phe Glu Leu Ala>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

      730          740          750          760
      *          *          *          *          *
AAC CAA GTT GTT GGT AAT ATT ACC AAA GCC GTT TCT TCT TAC ATT TTA
TTG GTT CAA CAA CCA TTA TAA TGG TTT CGG CAA AGA AGA ATG TAA AAT
Asn Gln Val Val Gly Asn Ile Thr Lys Ala Val Ser Ser Tyr Ile Leu>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

770          780          790          800          810
      *          *          *          *          *
GCC CAA CGT GTT GCA GCA GGT TTA TCT TCA ACT GGG CCT GTG GCT GCT
CGG GTT GCA CAA CGT CGT CCA AAT AGA AGT TGA CCC GGA CAC CGA CGA
Ala Gln Arg Val Ala Ala Gly Leu Ser Ser Thr Gly Pro Val Ala Ala>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

      820          830          840          850          860
      *          *          *          *          *
TTA ATT GCT TCT ACT GTT TCT CTT GCG ATT AGC CCA TTA GCA TTT GCC
AAT TAA CGA AGA TGA CAA AGA GAA CGC TAA TCG GGT AAT CGT AAA CGG
Leu Ile Ala Ser Thr Val Ser Leu Ala Ile Ser Pro Leu Ala Phe Ala>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

```

FIG. 8C

870                      880                      890                      900                      910  
 \*                      \*                      \*                      \*                      \*                      \*                      \*  
 GGT ATT GCC GAT AAA TTT AAT CAT GCA AAA AGT TTA GAG AGT TAT GCC  
 CCA TAA CGG CTA TTT AAA TTA GTA CGT TTT TCA AAT CTC TCA ATA CGG  
 Gly Ile Ala Asp Lys Phe Asn His Ala Lys Ser Leu Glu Ser Tyr Ala>  
 \_\_\_b\_\_\_b\_\_\_ RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_b\_\_\_b\_\_\_b\_\_\_>

920                      930                      940                      950                      960  
 \*                      \*                      \*                      \*                      \*                      \*                      \*  
 GAA CGC TTT AAA AAA TTA GGC TAT GAC GGA GAT AAT TTA TTA GCA GAA  
 CTT GCG AAA TTT TTT AAT CCG ATA CTG CCT CTA TTA AAT AAT CGT CTT  
 Glu Arg Phe Lys Lys Leu Gly Tyr Asp Gly Asp Asn Leu Leu Ala Glu>  
 \_\_\_b\_\_\_b\_\_\_ RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_b\_\_\_b\_\_\_b\_\_\_>

970                      980                      990                      1000  
 \*                      \*                      \*                      \*                      \*                      \*                      \*  
 TAT CAG CGG GGA ACA GGG ACT ATT GAT GCA TCG GTT ACT GCA ATT AAT  
 ATA GTC GCC CCT TGT CCC TGA TAA CTA CGT AGC CAA TGA CGT TAA TTA  
 Tyr Gln Arg Gly Thr Gly Thr Ile Asp Ala Ser Val Thr Ala Ile Asn>  
 \_\_\_b\_\_\_b\_\_\_ RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_b\_\_\_b\_\_\_b\_\_\_>

1010                      1020                      1030                      1040                      1050  
 \*                      \*                      \*                      \*                      \*                      \*                      \*  
 ACC GCA TTG GCC GCT ATT GCT GGT GGT GTG TCT GCT GCT GCA GCC GGC  
 TGG CGT AAC CGG CGA TAA CGA CCA CCA CAC AGA CGA CGA CGT CGG CCG  
 Thr Ala Leu Ala Ala Ile Ala Gly Gly Val Ser Ala Ala Ala Ala Gly>  
 \_\_\_b\_\_\_b\_\_\_ RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_b\_\_\_b\_\_\_b\_\_\_>

1060                      1070                      1080                      1090                      1100  
 \*                      \*                      \*                      \*                      \*                      \*                      \*  
 TCG GTT ATT GCT TCA CCG ATT GCC TTA TTA GTA TCT GGG ATT ACC GGT  
 AGC CAA TAA CGA AGT GGC TAA CGG AAT AAT CAT AGA CCC TAA TGG CCA  
 Ser Val Ile Ala Ser Pro Ile Ala Leu Leu Val Ser Gly Ile Thr Gly>  
 \_\_\_b\_\_\_b\_\_\_ RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_b\_\_\_b\_\_\_b\_\_\_>

1110                      1120                      1130                      1140                      1150  
 \*                      \*                      \*                      \*                      \*                      \*                      \*  
 GTA ATT TCT ACG ATT CTG CAA TAT TCT AAA CAA GCA ATG TTT GAG CAC  
 CAT TAA AGA TGC TAA GAC GTT ATA AGA TTT GTT CGT TAC AAA CTC GTG  
 Val Ile Ser Thr Ile Leu Gln Tyr Ser Lys Gln Ala Met Phe Glu His>  
 \_\_\_b\_\_\_b\_\_\_ RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_b\_\_\_b\_\_\_b\_\_\_>

1160                      1170                      1180                      1190                      1200  
 \*                      \*                      \*                      \*                      \*                      \*                      \*  
 GTT GCA AAT AAA ATT CAT AAC AAA ATT GTA GAA TGG GAA AAA AAT AAT  
 CAA CGT TTA TTT TAA GTA TTG TTT TAA CAT CTT ACC CTT TTT TTA TTA  
 Val Ala Asn Lys Ile His Asn Lys Ile Val Glu Trp Glu Lys Asn Asn>  
 \_\_\_b\_\_\_b\_\_\_ RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_b\_\_\_b\_\_\_b\_\_\_>

FIG. 8D

```

      1210      1220      1230      1240
      *      *      *      *
CAC GGT AAG AAC TAC TTT GAA AAT GGT TAC GAT GCC CGT TAT CTT GCG
GTG CCA TTC TTG ATG AAA CTT TTA CCA ATG CTA CGG GCA ATA GAA CGC
His Gly Lys Asn Tyr Phe Glu Asn Gly Tyr Asp Ala Arg Tyr Leu Ala>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

1250      1260      1270      1280      1290
      *      *      *      *      *
AAT TTA CAA GAT AAT ATG AAA TTC TTA CTG AAC TTA AAC AAA GAG TTA
TTA AAT GTT CTA TTA TAC TTT AAG AAT GAC TTG AAT TTG TTT CTC AAT
Asn Leu Gln Asp Asn Met Lys Phe Leu Leu Asn Leu Asn Lys Glu Leu>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

      1300      1310      1320      1330      1340
      *      *      *      *      *
CAG GCA GAA CGT GTC ATC GCT ATT ACT CAG CAG CAA TGG GAT AAC AAC
GTC CGT CTT GCA CAG TAG CGA TAA TGA GTC GTC GTT ACC CTA TTG TTG
Gln Ala Glu Arg Val Ile Ala Ile Thr Gln Gln Gln Trp Asp Asn Asn>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

      1350      1360      1370      1380      1390
      *      *      *      *      *
ATT GGT GAT TTA GCT GGT ATT AGC CGT TTA GGT GAA AAA GTC CTT AGT
TAA CCA CTA AAT CGA CCA TAA TCG GCA AAT CCA CTT TTT CAG GAA TCA
Ile Gly Asp Leu Ala Gly Ile Ser Arg Leu Gly Glu Lys Val Leu Ser>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

      1400      1410      1420      1430      1440
      *      *      *      *      *
GGT AAA GCC TAT GTG GAT GCG TTT GAA GAA GGC AAA CAC ATT AAA GCC
CCA TTT CGG ATA CAC CTA CGC AAA CTT CTT CCG TTT GTG TAA TTT CGG
Gly Lys Ala Tyr Val Asp Ala Phe Glu Glu Gly Lys His Ile Lys Ala>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

      1450      1460      1470      1480
      *      *      *      *      *
GAT AAA TTA GTA CAG TTG GAT TCG GCA AAC GGT ATT ATT GAT GTG AGT
CTA TTT AAT CAT GTC AAC CTA AGC CGT TTG CCA TAA TAA CTA CAC TCA
Asp Lys Leu Val Gln Leu Asp Ser Ala Asn Gly Ile Ile Asp Val Ser>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

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FIG. 8E

```

1490      1500      1510      1520      1530
  *      *      *      *      *
AAT TCG GGT AAA GCG AAA ACT CAG CAT ATC TTA TTC AGA ACG CCA TTA
TTA AGC CCA TTT CGC TTT TGA GTC GTA TAG AAT AAG TCT TGC GGT AAT
Asn Ser Gly Lys Ala Lys Thr Gln His Ile Leu Phe Arg Thr Pro Leu>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

1540      1550      1560      1570      1580
  *      *      *      *      *
TTG ACG CCG GGA ACA GAG CAT CGT GAA CGC GTA CAA ACA GGT AAA TAT
AAC TGC GGC CCT TGT CTC GTA GCA CTT GCG CAT GTT TGT CCA TTT ATA
Leu Thr Pro Gly Thr Glu His Arg Glu Arg Val Gln Thr Gly Lys Tyr>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

1590      1600      1610      1620      1630
  *      *      *      *      *
GAA TAT ATT ACC AAG CTC AAT ATT AAC CGT GTA GAT AGC TGG AAA ATT
CTT ATA TAA TGG TTC GAG TTA TAA TTG GCA CAT CTA TCG ACC TTT TAA
Glu Tyr Ile Thr Lys Leu Asn Ile Asn Arg Val Asp Ser Trp Lys Ile>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

1640      1650      1660      1670      1680
  *      *      *      *      *
ACA GAT GGT GCA GCA AGT TCT ACC TTT GAT TTA ACT AAC GTT GTT CAG
TGT CTA CCA CGT CGT TCA AGA TGG AAA CTA AAT TGA TTG CAA CAA GTC
Thr Asp Gly Ala Ala Ser Ser Thr Phe Asp Leu Thr Asn Val Val Gln>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

1690      1700      1710      1720
  *      *      *      *      *
CGT ATT GGT ATT GAA TTA GAC AAT GCT GGA AAT GTA ACT AAA ACC AAA
GCA TAA CCA TAA CTT AAT CTG TTA CGA CCT TTA CAT TGA TTT TGG TTT
Arg Ile Gly Ile Glu Leu Asp Asn Ala Gly Asn Val Thr Lys Thr Lys>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

1730      1740      1750      1760      1770
  *      *      *      *      *
GAA ACA AAA ATT ATT GCC AAA CTT GGT GAA GGT GAT GAC AAC GTA TTT
CTT TGT TTT TAA TAA CGG TTT GAA CCA CTT CCA CTA CTG TTG CAT AAA
Glu Thr Lys Ile Ile Ala Lys Leu Gly Glu Gly Asp Asp Asn Val Phe>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

1780      1790      1800      1810      1820
  *      *      *      *      *
GTT GGT TCT GGT ACG ACG GAA ATT GAT GGC GGT GAA GGT TAC GAC CGA
CAA CCA AGA CCA TGC TGC CTT TAA CTA CCG CCA CTT CCA ATG CTG GCT
Val Gly Ser Gly Thr Thr Glu Ile Asp Gly Gly Glu Gly Tyr Asp Arg>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

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FIG. 8F

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      1830      1840      1850      1860      1870
      *      *      *      *      *
GTT CAC TAT AGC CGT GGA AAC TAT GGT GCT TTA ACT ATT GAT GCA ACC
CAA GTG ATA TCG GCA CCT TTG ATA CCA CGA AAT TGA TAA CTA CGT TGG
Val His Tyr Ser Arg Gly Asn Tyr Gly Ala Leu Thr Ile Asp Ala Thr>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

      1880      1890      1900      1910      1920
      *      *      *      *      *
AAA GAG ACC GAG CAA GGT AGT TAT ACC GTA AAT CGT TTC GTA GAA ACC
TTT CTC TGG CTC GTT CCA TCA ATA TGG CAT TTA GCA AAG CAT CTT TGG
Lys Glu Thr Glu Gln Gly Ser Tyr Thr Val Asn Arg Phe Val Glu Thr>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

      1930      1940      1950      1960
      *      *      *      *
GGT AAA GCA CTA CAC GAA GTG ACT TCA ACC CAT ACC GCA TTA GTG GGC
CCA TTT CGT GAT GTG CTT CAC TGA AGT TGG GTA TGG CGT AAT CAC CCG
Gly Lys Ala Leu His Glu Val Thr Ser Thr His Thr Ala Leu Val Gly>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

1970      1980      1990      2000      2010
      *      *      *      *      *
AAC CGT GAA GAA AAA ATA GAA TAT CGT CAT AGC AAT AAC CAG CAC CAT
TTG GCA CTT CTT TTT TAT CTT ATA GCA GTA TCG TTA TTG GTC GTG GTA
Asn Arg Glu Glu Lys Ile Glu Tyr Arg His Ser Asn Asn Gln His His>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

      2020      2030      2040      2050      2060
      *      *      *      *      *
GCC GGT TAT TAC ACC AAA GAT ACC TTG AAA GCT GTT GAA GAA ATT ATC
CGG CCA ATA ATG TGG TTT CTA TGG AAC TTT CGA CAA CTT CTT TAA TAG
Ala Gly Tyr Tyr Thr Lys Asp Thr Leu Lys Ala Val Glu Glu Ile Ile>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

      2070      2080      2090      2100      2110
      *      *      *      *      *
GGT ACA TCA CAT AAC GAT ATC TTT AAA GGT AGT AAG TTC AAT GAT GCC
CCA TGT AGT GTA TTG CTA TAG AAA TTT CCA TCA TTC AAG TTA CTA CGG
Gly Thr Ser His Asn Asp Ile Phe Lys Gly Ser Lys Phe Asn Asp Ala>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

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FIG. 8G





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2450      2460      2470      2480      2490
*          *          *          *          *
GCT GAT TTT GCT AAA GAA GTG CCT AAT TAT AAA GCA ACT AAA GAT GAG
CGA CTA AAA CGA TTT CTT CAC GGA TTA ATA TTT CGT TGA TTT CTA CTC
Ala Asp Phe Ala Lys Glu Val Pro Asn Tyr Lys Ala Thr Lys Asp Glu>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

2500      2510      2520      2530      2540
*          *          *          *          *
AAA ATC GAA GAA ATC ATC GGT CAA AAT GGC GAG CGG ATC ACC TCA AAG
TTT TAG CTT CTT TAG TAG CCA GTT TTA CCG CTC GCC TAG TGG AGT TTC
Lys Ile Glu Glu Ile Ile Gly Gln Asn Gly Glu Arg Ile Thr Ser Lys>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

2550      2560      2570      2580      2590
*          *          *          *          *
CAA GTT GAT GAT CTT ATC GCA AAA GGT AAC GGC AAA ATT ACC CAA GAT
GTT CAA CTA CTA GAA TAG CGT TTT CCA TTG CCG TTT TAA TGG GTT CTA
Gln Val Asp Asp Leu Ile Ala Lys Gly Asn Gly Lys Ile Thr Gln Asp>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

2600      2610      2620      2630      2640
*          *          *          *          *
GAG CTA TCA AAA GTT GTT GAT AAC TAT GAA TTG CTC AAA CAT AGC AAA
CTC GAT AGT TTT CAA CAA CTA TTG ATA CTT AAC GAG TTT GTA TCG TTT
Glu Leu Ser Lys Val Val Asp Asn Tyr Glu Leu Leu Lys His Ser Lys>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

2650      2660      2670      2680
*          *          *          *          *
AAT GTG ACA AAC AGC TTA GAT AAG TTA ATC TCA TCT GTA AGT GCA TTT
TTA CAC TGT TTG TCG AAT CTA TTC AAT TAG AGT AGA CAT TCA CGT AAA
Asn Val Thr Asn Ser Leu Asp Lys Leu Ile Ser Ser Val Ser Ala Phe>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

2690      2700      2710      2720      2730
*          *          *          *          *
ACC TCG TCT AAT GAT TCG AGA AAT GTA TTA GTG GCT CCA ACT TCA ATG
TGG AGC AGA TTA CTA AGC TCT TTA CAT AAT CAC CGA GGT TGA AGT TAC
Thr Ser Ser Asn Asp Ser Arg Asn Val Leu Val Ala Pro Thr Ser Met>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

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FIG. 8I

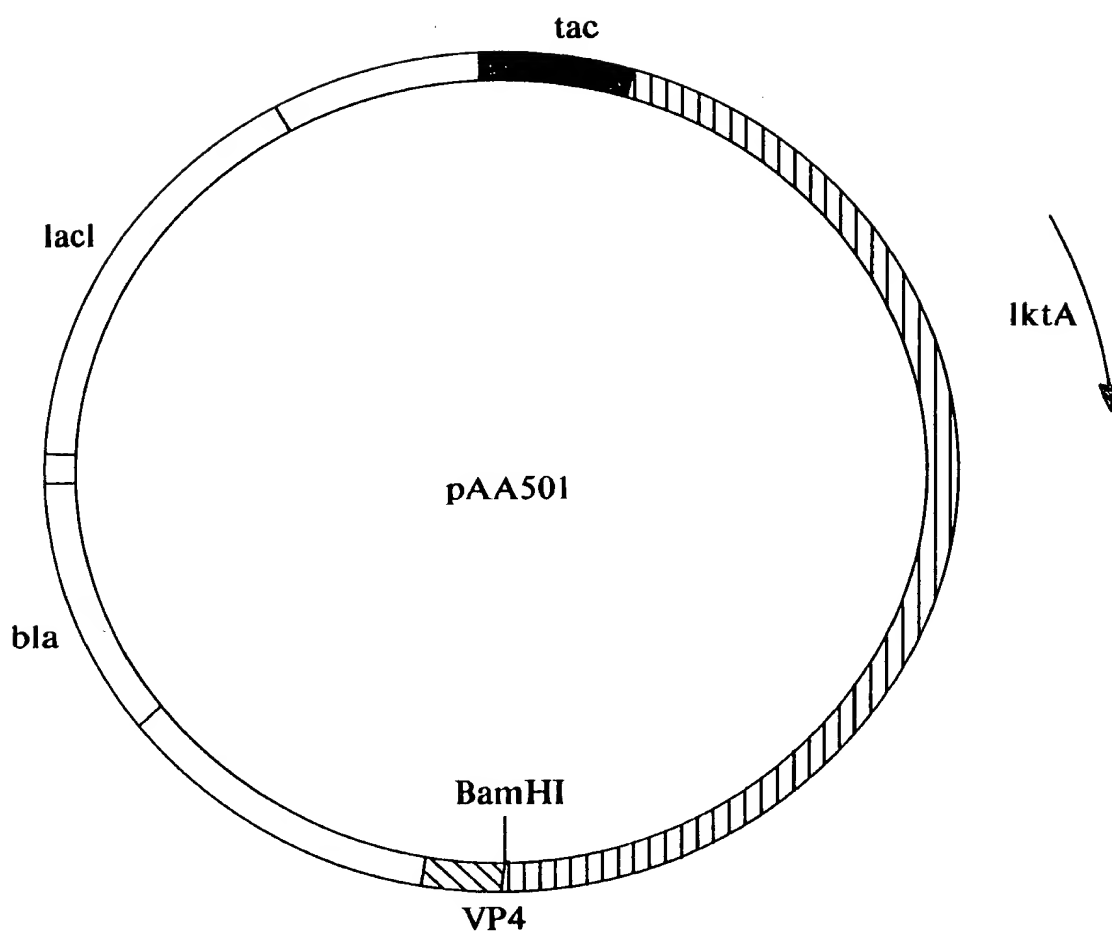
```

      2740          2750          2760          2770          2780
      *            *            *            *            *
TTG GAT CAA AGT TTA TCT TCT CTT CAA TTT GCT AGG GGA TCT CAG CAT
AAC CTA GTT TCA AAT AGA AGA GAA GTT AAA CGA TCC CCT AGA GTC GTA
                                           Gln His>
Leu Asp Gln Ser Leu Ser Ser Leu Gln Phe Ala Arg Gly Ser>
__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]__b__b__>

      2790          2800          2810
      *            *            *            *            *
TGG AGC TAC GGC CTG CGC CCT GGC TAA GGATCC
ACC TCG ATG CCG GAC GCG GGA CCG ATT CCTAGG
Trp Ser Tyr Gly Leu Arg Pro Gly End>
__a__a__a__GNRH__a__a__a__>

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FIG. 8J



**FIG. 9**

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      10      20      30      40
      *      *      *      *      *
ATG GCT ACT GTT ATA GAT CTA AGC TTC CCA AAA ACT GGG GCA AAA AAA
TAC CGA TGA CAA TAT CTA GAT TCG AAG GGT TTT TGA CCC CGT TTT TTT
Met Ala Thr Val Ile Asp Leu Ser Phe Pro Lys Thr Gly Ala Lys Lys>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

50      60      70      80      90
      *      *      *      *      *
ATT ATC CTC TAT ATT CCC CAA AAT TAC CAA TAT GAT ACT GAA CAA GGT
TAA TAG GAG ATA TAA GGG GTT TTA ATG GTT ATA CTA TGA CTT GTT CCA
Ile Ile Leu Tyr Ile Pro Gln Asn Tyr Gln Tyr Asp Thr Glu Gln Gly>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

100      110      120      130      140
      *      *      *      *      *
AAT GGT TTA CAG GAT TTA GTC AAA GCG GCC GAA GAG TTG GGG ATT GAG
TTA CCA AAT GTC CTA AAT CAG TTT CGC CGG CTT CTC AAC CCC TAA CTC
Asn Gly Leu Gln Asp Leu Val Lys Ala Ala Glu Glu Leu Gly Ile Glu>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

150      160      170      180      190
      *      *      *      *      *
GTA CAA AGA GAA GAA CGC AAT AAT ATT GCA ACA GCT CAA ACC AGT TTA
CAT GTT TCT CTT CTT GCG TTA TTA TAA CGT TGT CGA GTT TGG TCA AAT
Val Gln Arg Glu Glu Arg Asn Asn Ile Ala Thr Ala Gln Thr Ser Leu>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

200      210      220      230      240
      *      *      *      *      *
GGC ACG ATT CAA ACC GCT ATT GGC TTA ACT GAG CGT GGC ATT GTG TTA
CCG TGC TAA GTT TGG CGA TAA CCG AAT TGA CTC GCA CCG TAA CAC AAT
Gly Thr Ile Gln Thr Ala Ile Gly Leu Thr Glu Arg Gly Ile Val Leu>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

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FIG. 10A

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      250      260      270      280
      *      *      *      *      *      *      *      *
TCC GCT CCA CAA ATT GAT AAA TTG CTA CAG AAA ACT AAA GCA GGC CAA
AGG CGA GGT GTT TAA CTA TTT AAC GAT GTC TTT TGA TTT CGT CCG GTT
Ser Ala Pro Gln Ile Asp Lys Leu Leu Gln Lys Thr Lys Ala Gly Gln>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

290      300      310      320      330
      *      *      *      *      *      *      *      *
GCA TTA GGT TCT GCC GAA AGC ATT GTA CAA AAT GCA AAT AAA GCC AAA
CGT AAT CCA AGA CCG CTT TCG TAA CAT GTT TTA CGT TTA TTT CCG TTT
Ala Leu Gly Ser Ala Glu Ser Ile Val Gln Asn Ala Asn Lys Ala Lys>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

      340      350      360      370      380
      *      *      *      *      *      *      *      *
ACT GTA TTA TCT GGC ATT CAA TCT ATT TTA GGC TCA GTA TTG GCT GGA
TGA CAT AAT AGA CCG TAA GTT AGA TAA AAT CCG AGT CAT AAC CGA CCT
Thr Val Leu Ser Gly Ile Gln Ser Ile Leu Gly Ser Val Leu Ala Gly>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

      390      400      410      420      430
      *      *      *      *      *      *      *      *
ATG GAT TTA GAT GAG GCC TTA CAG AAT AAC AGC AAC CAA CAT GCT CTT
TAC CTA AAT CTA CTC CCG AAT GTC TTA TTG TCG TTG GTT GTA CGA GAA
Met Asp Leu Asp Glu Ala Leu Gln Asn Asn Ser Asn Gln His Ala Leu>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

      440      450      460      470      480
      *      *      *      *      *      *      *      *
GCT AAA GCT GGC TTG GAG CTA ACA AAT TCA TTA ATT GAA AAT ATT GCT
CGA TTT CGA CCG AAC CTC GAT TGT TTA AGT AAT TAA CTT TTA TAA CGA
Ala Lys Ala Gly Leu Glu Leu Thr Asn Ser Leu Ile Glu Asn Ile Ala>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

      490      500      510      520
      *      *      *      *      *      *      *      *
AAT TCA GTA AAA ACA CTT GAC GAA TTN -GT GAG CAA ATT AGT CAA TTT
TTA AGT CAT TTT TGT GAA CTG CTT AAN -CA CTC GTT TAA TCA GTT AAA
Asn Ser Val Lys Thr Leu Asp Glu Xxx Cys Glu Gln Ile Ser Gln Phe>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

530      540      550      560      570
      *      *      *      *      *      *      *      *
GGT TCA AAA CTA CAA AAT ATC AAA GGC TTA GGG ACT TTA GGA GAC AAA
CCA AGT TTT GAT GTT TTA TAG TTT CCG AAT CCC TGA AAT CCT CTG TTT
Gly Ser Lys Leu Gln Asn Ile Lys Gly Leu Gly Thr Leu Gly Asp Lys>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

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FIG. 10B

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      580      590      600      610      620
      *      *      *      *      *
CTC AAA AAT ATC GGT GGA CTT GAT AAA GCT GGC CTT GGT TTA GAT GTT
GAG TTT TTA TAG CCA CCT GAA CTA TTT CGA CCG GAA CCA AAT CTA CAA
Leu Lys Asn Ile Gly Gly Leu Asp Lys Ala Gly Leu Gly Leu Asp Val>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

      630      640      650      660      670
      *      *      *      *      *
ATC TCA GGG CTA TTA TCG GGC GCA ACA GCT GCA CTT GTA CTT GCA GAT
TAG AGT CCC GAT AAT AGC CCG CGT TGT CGA CGT GAA CAT GAA CGT CTA
Ile Ser Gly Leu Leu Ser Gly Ala Thr Ala Ala Leu Val Leu Ala Asp>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

      680      690      700      710      720
      *      *      *      *      *
AAA AAT GCT TCA ACA GCT AAA AAA GTG GGT GCG GGT TTT GAA TTG GCA
TTT TTA CGA AGT TGT CGA TTT TTT CAC CCA CGC CCA AAA CTT AAC CGT
Lys Asn Ala Ser Thr Ala Lys Lys Val Gly Ala Gly Phe Glu Leu Ala>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

      730      740      750      760
      *      *      *      *
AAC CAA GTT GTT GGT AAT ATT ACC AAA GCC GTT TCT TCT TAC ATT TTA
TTG GTT CAA CAA CCA TTA TAA TGG TTT CGG CAA AGA AGA ATG TAA AAT
Asn Gln Val Val Gly Asn Ile Thr Lys Ala Val Ser Ser Tyr Ile Leu>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

      770      780      790      800      810
      *      *      *      *      *
GCC CAA CGT GTT GCA GCA GGT TTA TCT TCA ACT GGG CCT GTG GCT GCT
CGG GTT GCA CAA CGT CGT CCA AAT AGA AGT TGA CCC GGA CAC CGA CGA
Ala Gln Arg Val Ala Ala Gly Leu Ser Ser Thr Gly Pro Val Ala Ala>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

      820      830      840      850      860
      *      *      *      *      *
TTA ATT GCT TCT ACT GTT TCT CTT GCG ATT AGC CCA TTA GCA TTT GCC
AAT TAA CGA AGA TGA CAA AGA GAA CGC TAA TCG GGT AAT CGT AAA CGG
Leu Ile Ala Ser Thr Val Ser Leu Ala Ile Ser Pro Leu Ala Phe Ala>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

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FIG. 10C

870                      880                      890                      900                      910  
 \*                      \*                      \*                      \*                      \*  
 GGT ATT GCC GAT AAA TTT AAT CAT GCA AAA AGT TTA GAG AGT TAT GCC  
 CCA TAA CGG CTA TTT AAA TTA GTA CGT TTT TCA AAT CTC TCA ATA CGG  
 Gly Ile Ala Asp Lys Phe Asn His Ala Lys Ser Leu Glu Ser Tyr Ala>  
 \_\_\_b\_\_\_b\_\_\_ RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_b\_\_\_b\_\_\_b\_\_\_>

920                      930                      940                      950                      960  
 \*                      \*                      \*                      \*                      \*  
 GAA CGC TTT AAA AAA TTA GGC TAT GAC GGA GAT AAT TTA TTA GCA GAA  
 CTT GCG AAA TTT TTT AAT CCG ATA CTG CCT CTA TTA AAT AAT CGT CTT  
 Glu Arg Phe Lys Lys Leu Gly Tyr Asp Gly Asp Asn Leu Leu Ala Glu>  
 \_\_\_b\_\_\_b\_\_\_ RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_b\_\_\_b\_\_\_b\_\_\_>

970                      980                      990                      1000  
 \*                      \*                      \*                      \*                      \*  
 TAT CAG CGG GGA ACA GGG ACT ATT GAT GCA TCG GTT ACT GCA ATT AAT  
 ATA GTC GCC CCT TGT CCC TGA TAA CTA CGT AGC CAA TGA CGT TAA TTA  
 Tyr Gln Arg Gly Thr Gly Thr Ile Asp Ala Ser Val Thr Ala Ile Asn>  
 \_\_\_b\_\_\_b\_\_\_ RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_b\_\_\_b\_\_\_b\_\_\_>

1010                      1020                      1030                      1040                      1050  
 \*                      \*                      \*                      \*                      \*  
 ACC GCA TTG GCC GCT ATT GCT GGT GGT GTG TCT GCT GCT GCA GCC GGC  
 TGG CGT AAC CGG CGA TAA CGA CCA CCA CAC AGA CGA CGA CGT CGG CCG  
 Thr Ala Leu Ala Ala Ile Ala Gly Gly Val Ser Ala Ala Ala Ala Gly>  
 \_\_\_b\_\_\_b\_\_\_ RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_b\_\_\_b\_\_\_b\_\_\_>

1060                      1070                      1080                      1090                      1100  
 \*                      \*                      \*                      \*                      \*  
 TCG GTT ATT GCT TCA CCG ATT GCC TTA TTA GTA TCT GGG ATT ACC GGT  
 AGC CAA TAA CGA AGT GGC TAA CGG AAT AAT CAT AGA CCC TAA TGG CCA  
 Ser Val Ile Ala Ser Pro Ile Ala Leu Leu Val Ser Gly Ile Thr Gly>  
 \_\_\_b\_\_\_b\_\_\_ RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_b\_\_\_b\_\_\_b\_\_\_>

1110                      1120                      1130                      1140                      1150  
 \*                      \*                      \*                      \*                      \*  
 GTA ATT TCT ACG ATT CTG CAA TAT TCT AAA CAA GCA ATG TTT GAG CAC  
 CAT TAA AGA TGC TAA GAC GTT ATA AGA TTT GTT CGT TAC AAA CTC GTG  
 Val Ile Ser Thr Ile Leu Gln Tyr Ser Lys Gln Ala Met Phe Glu His>  
 \_\_\_b\_\_\_b\_\_\_ RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_b\_\_\_b\_\_\_b\_\_\_>

1160                      1170                      1180                      1190                      1200  
 \*                      \*                      \*                      \*                      \*  
 GTT GCA AAT AAA ATT CAT AAC AAA ATT GTA GAA TGG GAA AAA AAT AAT  
 CAA CGT TTA TTT TAA GTA TTG TTT TAA CAT CTT ACC CTT TTT TTA TTA  
 Val Ala Asn Lys Ile His Asn Lys Ile Val Glu Trp Glu Lys Asn Asn>  
 \_\_\_b\_\_\_b\_\_\_ RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_b\_\_\_b\_\_\_b\_\_\_>

FIG. 10D

1210                      1220                      1230                      1240  
 \*                      \*                      \*                      \*                      \*                      \*  
 CAC GGT AAG AAC TAC TTT GAA AAT GGT TAC GAT GCC CGT TAT CTT GCG  
 GTG CCA TTC TTG ATG AAA CTT TTA CCA ATG CTA CGG GCA ATA GAA CGC  
 His Gly Lys Asn Tyr Phe Glu Asn Gly Tyr Asp Ala Arg Tyr Leu Ala>  
 \_\_\_b\_\_\_b\_\_\_ RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_b\_\_\_b\_\_\_b\_\_\_>

1250                      1260                      1270                      1280                      1290  
 \*                      \*                      \*                      \*                      \*                      \*  
 AAT TTA CAA GAT AAT ATG AAA TTC TTA CTG AAC TTA AAC AAA GAG TTA  
 TTA AAT GTT CTA TTA TAC TTT AAG AAT GAC TTG AAT TTG TTT CTC AAT  
 Asn Leu Gln Asp Asn Met Lys Phe Leu Leu Asn Leu Asn Lys Glu Leu>  
 \_\_\_b\_\_\_b\_\_\_ RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_b\_\_\_b\_\_\_b\_\_\_>

1300                      1310                      1320                      1330                      1340  
 \*                      \*                      \*                      \*                      \*                      \*  
 CAG GCA GAA CGT GTC ATC GCT ATT ACT CAG CAG CAA TGG GAT AAC AAC  
 GTC CGT CTT GCA CAG TAG CGA TAA TGA GTC GTC GTT ACC CTA TTG TTG  
 Gln Ala Glu Arg Val Ile Ala Ile Thr Gln Gln Gln Trp Asp Asn Asn>  
 \_\_\_b\_\_\_b\_\_\_ RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_b\_\_\_b\_\_\_b\_\_\_>

1350                      1360                      1370                      1380                      1390  
 \*                      \*                      \*                      \*                      \*                      \*  
 ATT GGT GAT TTA GCT GGT ATT AGC CGT TTA GGT GAA AAA GTC CTT AGT  
 TAA CCA CTA AAT CGA CCA TAA TCG GCA AAT CCA CTT TTT CAG GAA TCA  
 Ile Gly Asp Leu Ala Gly Ile Ser Arg Leu Gly Glu Lys Val Leu Ser>  
 \_\_\_b\_\_\_b\_\_\_ RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_b\_\_\_b\_\_\_b\_\_\_>

1400                      1410                      1420                      1430                      1440  
 \*                      \*                      \*                      \*                      \*                      \*  
 GGT AAA GCC TAT GTG GAT GCG TTT GAA GAA GGC AAA CAC ATT AAA GCC  
 CCA TTT CGG ATA CAC CTA GCG AAA CTT CTT CCG TTT GTG TAA TTT CGG  
 Gly Lys Ala Tyr Val Asp Ala Phe Glu Glu Gly Lys His Ile Lys Ala>  
 \_\_\_b\_\_\_b\_\_\_ RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_b\_\_\_b\_\_\_b\_\_\_>

1450                      1460                      1470                      1480  
 \*                      \*                      \*                      \*                      \*                      \*  
 GAT AAA TTA GTA CAG TTG GAT TCG GCA AAC GGT ATT ATT GAT GTG AGT  
 CTA TTT AAT CAT GTC AAC CTA AGC CGT TTG CCA TAA TAA CTA CAC TCA  
 Asp Lys Leu Val Gln Leu Asp Ser Ala Asn Gly Ile Ile Asp Val Ser>  
 \_\_\_b\_\_\_b\_\_\_ RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_b\_\_\_b\_\_\_b\_\_\_>

08976556 "112497"

FIG. 10E



1490                    1500                    1510                    1520                    1530  
 \*                    \*                    \*                    \*                    \*  
 AAT TCG GGT AAA GCG AAA ACT CAG CAT ATC TTA TTC AGA ACG CCA TTA  
 TTA AGC CCA TTT CGC TTT TGA GTC GTA TAG AAT AAG TCT TGC GGT AAT  
 Asn Ser Gly Lys Ala Lys Thr Gln His Ile Leu Phe Arg Thr Pro Leu>  
 \_\_\_b\_\_\_b\_\_\_ RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_b\_\_\_b\_\_\_b\_\_\_>

1540                    1550                    1560                    1570                    1580  
 \*                    \*                    \*                    \*                    \*  
 TTG ACG CCG GGA ACA GAG CAT CGT GAA CGC GTA CAA ACA GGT AAA TAT  
 AAC TGC GGC CCT TGT CTC GTA GCA CTT GCG CAT GTT TGT CCA TTT ATA  
 Leu Thr Pro Gly Thr Glu His Arg Glu Arg Val Gln Thr Gly Lys Tyr>  
 \_\_\_b\_\_\_b\_\_\_ RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_b\_\_\_b\_\_\_b\_\_\_>

1590                    1600                    1610                    1620                    1630  
 \*                    \*                    \*                    \*                    \*  
 GAA TAT ATT ACC AAG CTC AAT ATT AAC CGT GTA GAT AGC TGG AAA ATT  
 CTT ATA TAA TGG TTC GAG TTA TAA TTG GCA CAT CTA TCG ACC TTT TAA  
 Glu Tyr Ile Thr Lys Leu Asn Ile Asn Arg Val Asp Ser Trp Lys Ile>  
 \_\_\_b\_\_\_b\_\_\_ RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_b\_\_\_b\_\_\_b\_\_\_>

1640                    1650                    1660                    1670                    1680  
 \*                    \*                    \*                    \*                    \*  
 ACA GAT GGT GCA GCA AGT TCT ACC TTT GAT TTA ACT AAC GTT GTT CAG  
 TGT CTA CCA CGT CGT TCA AGA TGG AAA CTA AAT TGA TTG CAA CAA GTC  
 Thr Asp Gly Ala Ala Ser Ser Thr Phe Asp Leu Thr Asn Val Val Gln>  
 \_\_\_b\_\_\_b\_\_\_ RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_b\_\_\_b\_\_\_b\_\_\_>

1690                    1700                    1710                    1720  
 \*                    \*                    \*                    \*  
 CGT ATT GGT ATT GAA TTA GAC AAT GCT GGA AAT GTA ACT AAA ACC AAA  
 GCA TAA CCA TAA CTT AAT CTG TTA CGA CCT TTA CAT TGA TTT TGG TTT  
 Arg Ile Gly Ile Glu Leu Asp Asn Ala Gly Asn Val Thr Lys Thr Lys>  
 \_\_\_b\_\_\_b\_\_\_ RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_b\_\_\_b\_\_\_b\_\_\_>

1730                    1740                    1750                    1760                    1770  
 \*                    \*                    \*                    \*                    \*  
 GAA ACA AAA ATT ATT GCC AAA CTT GGT GAA GGT GAT GAC AAC GTA TTT  
 CTT TGT TTT TAA TAA CGG TTT GAA CCA CTT CCA CTA CTG TTG CAT AAA  
 Glu Thr Lys Ile Ile Ala Lys Leu Gly Glu Gly Asp Asp Asn Val Phe>  
 \_\_\_b\_\_\_b\_\_\_ RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_b\_\_\_b\_\_\_b\_\_\_>

1780                    1790                    1800                    1810                    1820  
 \*                    \*                    \*                    \*                    \*  
 GTT GGT TCT GGT ACG ACG GAA ATT GAT GGC GGT GAA GGT TAC GAC CGA  
 CAA CCA AGA CCA TGC TGC CTT TAA CTA CCG CCA CTT CCA ATG CTG GCT  
 Val Gly Ser Gly Thr Thr Glu Ile Asp Gly Gly Glu Gly Tyr Asp Arg>  
 \_\_\_b\_\_\_b\_\_\_ RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_b\_\_\_b\_\_\_b\_\_\_>

FIG. 10F

1830 1840 1850 1860 1870  
 \* \* \* \* \*  
 GTT CAC TAT AGC CGT GGA AAC TAT GGT GCT TTA ACT ATT GAT GCA ACC  
 CAA GTG ATA TCG GCA CCT TTG ATA CCA CGA AAT TGA TAA CTA CGT TGG  
 Val His Tyr Ser Arg Gly Asn Tyr Gly Ala Leu Thr Ile Asp Ala Thr>  
 \_\_\_b\_\_\_b\_\_\_ RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_b\_\_\_b\_\_\_b\_\_\_>

1880 1890 1900 1910 1920  
 \* \* \* \* \*  
 AAA GAG ACC GAG CAA GGT AGT TAT ACC GTA AAT CGT TTC GTA GAA ACC  
 TTT CTC TGG CTC GTT CCA TCA ATA TGG CAT TTA GCA AAG CAT CTT TGG  
 Lys Glu Thr Glu Gln Gly Ser Tyr Thr Val Asn Arg Phe Val Glu Thr>  
 \_\_\_b\_\_\_b\_\_\_ RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_b\_\_\_b\_\_\_b\_\_\_>

1930 1940 1950 1960  
 \* \* \* \* \*  
 GGT AAA GCA CTA CAC GAA GTG ACT TCA ACC CAT ACC GCA TTA GTG GGC  
 CCA TTT CGT GAT GTG CTT CAC TGA AGT TGG GTA TGG CGT AAT CAC CCG  
 Gly Lys Ala Leu His Glu Val Thr Ser Thr His Thr Ala Leu Val Gly>  
 \_\_\_b\_\_\_b\_\_\_ RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_b\_\_\_b\_\_\_b\_\_\_>

1970 1980 1990 2000 2010  
 \* \* \* \* \*  
 AAC CGT GAA GAA AAA ATA GAA TAT CGT CAT AGC AAT AAC CAG CAC CAT  
 TTG GCA CTT CTT TTT TAT CTT ATA GCA GTA TCG TTA TTG GTC GTG GTA  
 Asn Arg Glu Glu Lys Ile Glu Tyr Arg His Ser Asn Asn Gln His His>  
 \_\_\_b\_\_\_b\_\_\_ RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_b\_\_\_b\_\_\_b\_\_\_>

2020 2030 2040 2050 2060  
 \* \* \* \* \*  
 GCC GGT TAT TAC ACC AAA GAT ACC TTG AAA GCT GTT GAA GAA ATT ATC  
 CGG CCA ATA ATG TGG TTT CTA TGG AAC TTT CGA CAA CTT CTT TAA TAG  
 Ala Gly Tyr Tyr Thr Lys Asp Thr Leu Lys Ala Val Glu Glu Ile Ile>  
 \_\_\_b\_\_\_b\_\_\_ RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_b\_\_\_b\_\_\_b\_\_\_>

2070 2080 2090 2100 2110  
 \* \* \* \* \*  
 GGT ACA TCA CAT AAC GAT ATC TTT AAA GGT AGT AAG TTC AAT GAT GCC  
 CCA TGT AGT GTA TTG CTA TAG AAA TTT CCA TCA TTC AAG TTA CTA CGG  
 Gly Thr Ser His Asn Asp Ile Phe Lys Gly Ser Lys Phe Asn Asp Ala>  
 \_\_\_b\_\_\_b\_\_\_ RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_b\_\_\_b\_\_\_b\_\_\_>

FIG. 10G

08976566 "112497"

2120 2130 2140 2150 2160  
 \* \* \* \* \*  
 TTT AAC GGT GGT GAT GGT GTC GAT ACT ATT GAC GGT AAC GAC GGC AAT  
 AAA TTG CCA CCA CTA CCA CAG CTA TGA TAA CTG CCA TTG CTG CCG TTA  
 Phe Asn Gly Gly Asp Gly Val Asp Thr Ile Asp Gly Asn Asp Gly Asn>  
 \_\_\_b\_\_\_b\_\_\_ RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_b\_\_\_b\_\_\_b\_\_\_>

2170 2180 2190 2200  
 \* \* \* \* \*  
 GAC CGC TTA TTT GGT GGT AAA GGC GAT GAT ATT CTC GAT GGT GGA AAT  
 CTG GCG AAT AAA CCA CCA TTT CCG CTA CTA TAA GAG CTA CCA CCT TTA  
 Asp Arg Leu Phe Gly Gly Lys Gly Asp Asp Ile Leu Asp Gly Gly Asn>  
 \_\_\_b\_\_\_b\_\_\_ RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_b\_\_\_b\_\_\_b\_\_\_>

2210 2220 2230 2240 2250  
 \* \* \* \* \*  
 GGT GAT GAT TTT ATC GAT GGC GGT AAA GGC AAC GAC CTA TTA CAC GGT  
 CCA CTA CTA AAA TAG CTA CCG CCA TTT CCG TTG CTG GAT AAT GTG CCA  
 Gly Asp Asp Phe Ile Asp Gly Gly Lys Gly Asn Asp Leu Leu His Gly>  
 \_\_\_b\_\_\_b\_\_\_ RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_b\_\_\_b\_\_\_b\_\_\_>

2260 2270 2280 2290 2300  
 \* \* \* \* \*  
 GGC AAG GGC GAT GAT ATT TTC GTT CAC CGT AAA GGC GAT GGT AAT GAT  
 CCG TTC CCG CTA CTA TAA AAG CAA GTG GCA TTT CCG CTA CCA TTA CTA  
 Gly Lys Gly Asp Asp Ile Phe Val His Arg Lys Gly Asp Gly Asn Asp>  
 \_\_\_b\_\_\_b\_\_\_ RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_b\_\_\_b\_\_\_b\_\_\_>

2310 2320 2330 2340 2350  
 \* \* \* \* \*  
 ATT ATT ACC GAT TCT GAC GGC AAT GAT AAA TTA TCA TTC TCT GAT TCG  
 TAA TAA TGG CTA AGA CTG CCG TTA CTA TTT AAT AGT AAG AGA CTA AGC  
 Ile Ile Thr Asp Ser Asp Gly Asn Asp Lys Leu Ser Phe Ser Asp Ser>  
 \_\_\_b\_\_\_b\_\_\_ RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_b\_\_\_b\_\_\_b\_\_\_>

2360 2370 2380 2390 2400  
 \* \* \* \* \*  
 AAC TTA AAA GAT TTA ACA TTT GAA AAA GTT AAA CAT AAT CTT GTC ATC  
 TTG AAT TTT CTA AAT TGT AAA CTT TTT CAA TTT GTA TTA GAA CAG TAG  
 Asn Leu Lys Asp Leu Thr Phe Glu Lys Val Lys His Asn Leu Val Ile>  
 \_\_\_b\_\_\_b\_\_\_ RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_b\_\_\_b\_\_\_b\_\_\_>

2410 2420 2430 2440  
 \* \* \* \* \*  
 ACG AAT AGC AAA AAA GAG AAA GTG ACC ATT CAA AAC TGG TTC CGA GAG  
 TGC TTA TCG TTT TTT CTC TTT CAC TGG TAA GTT TTG ACC AAG GCT CTC  
 Thr Asn Ser Lys Lys Glu Lys Val Thr Ile Gln Asn Trp Phe Arg Glu>  
 \_\_\_b\_\_\_b\_\_\_ RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]\_b\_\_\_b\_\_\_b\_\_\_>

FIG. 10H

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2450      2460      2470      2480      2490
*          *          *          *          *
GCT GAT TTT GCT AAA GAA GTG CCT AAT TAT AAA GCA ACT AAA GAT GAG
CGA CTA AAA CGA TTT CTT CAC GGA TTA ATA TTT CGT TGA TTT CTA CTC
Ala Asp Phe Ala Lys Glu Val Pro Asn Tyr Lys Ala Thr Lys Asp Glu>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

2500      2510      2520      2530      2540
*          *          *          *          *
AAA ATC GAA GAA ATC ATC GGT CAA AAT GGC GAG CGG ATC ACC TCA AAG
TTT TAG CTT CTT TAG TAG CCA GTT TTA CCG CTC GCC TAG TGG AGT TTC
Lys Ile Glu Glu Ile Ile Gly Gln Asn Gly Glu Arg Ile Thr Ser Lys>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

2550      2560      2570      2580      2590
*          *          *          *          *
CAA GTT GAT GAT CTT ATC GCA AAA GGT AAC GGC AAA ATT ACC CAA GAT
GTT CAA CTA CTA GAA TAG CGT TTT CCA TTG CCG TTT TAA TGG GTT CTA
Gln Val Asp Asp Leu Ile Ala Lys Gly Asn Gly Lys Ile Thr Gln Asp>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

2600      2610      2620      2630      2640
*          *          *          *          *
GAG CTA TCA AAA GTT GTT GAT AAC TAT GAA TTG CTC AAA CAT AGC AAA
CTC GAT AGT TTT CAA CAA CTA TTG ATA CTT AAC GAG TTT GTA TCG TTT
Glu Leu Ser Lys Val Val Asp Asn Tyr Glu Leu Leu Lys His Ser Lys>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

2650      2660      2670      2680
*          *          *          *          *
AAT GTG ACA AAC AGC TTA GAT AAG TTA ATC TCA TCT GTA AGT GCA TTT
TTA CAC TGT TTG TCG AAT CTA TTC AAT TAG AGT AGA CAT TCA CGT AAA
Asn Val Thr Asn Ser Leu Asp Lys Leu Ile Ser Ser Val Ser Ala Ph >
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

2690      2700      2710      2720      2730
*          *          *          *          *
ACC TCG TCT AAT GAT TCG AGA AAT GTA TTA GTG GCT CCA ACT TCA ATG
TGG AGC AGA TTA CTA AGC TCT TTA CAT AAT CAC CGA GGT TGA AGT TAC
Thr Ser Ser Asn Asp Ser Arg Asn Val Leu Val Ala Pro Thr Ser Met>
__b__b__b__RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]_b__b__b__>

```

FIG. 10I

```

2740      2750      2760      2770      2780
*      *      *      *      *
TTG GAT CAA AGT TTA TCT TCT CTT CAA TTT GCT AGG GGA TCT TGC AAC
AAC CTA GTT TCA AAT AGA AGA GAA GTT AAA CGA TCC CCT AGA ACG TTG
Cys Asn>
Leu Asp Gln Ser Leu Ser Ser Leu Gln Phe Ala Arg Gly Ser>
__b__ RECOMBINANT LEUKOTOXIN PEPTIDE [SPLIT]__b__b__>

2790      2800      2810      2820      2830
*      *      *      *      *
ATT GTG CCT GTG AGC ATT GTG AGC CGC AAC ATT GTG TAC ACC CGC GCG
TAA CAC GGA CAC TCG TAA CAC TCG GCG TTG TAA CAC ATG TGG GCG CGC
Ile Val Pro Val Ser Ile Val Ser Arg Asn Ile Val Tyr Thr Arg Ala>
__a__a__a__a__a__a__a__a__|VP4__a__a__a__a__a__a__a__a__>

2840      2850      2860
*      *      *      *      *
CAA CCT AAC CAA GAC ATT GTG TAG GATCC
GTT GGA TTG GTT CTG TAA CAC ATC CTAGG
Gln Pro Asn Gln Asp Ile Val End>
__a__a__a__a__|VP4__a__a__a__a__>

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FIG. 10J